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United States Department of Agriculture, Seed and Plant Introduction and Distribution, WASHINGTON, D. C. ALFALFA (Medicago sativa). [Instructions adapted to Pennsylvania, West Virginia, Maryland, Kentucky, Tennessee, Arkansas, Virginia, and the Southern States, except western Texas.]

Instructions adapted to Pennsylvania, West Virginia, Maryland, Kentucky, Tennessee, Arkansas, Virginia, and the Southern States, except western Texas. [i]

Description.—Alfalfa is an upright, smooth, perennial, leguminous forage plant. It occupies the same place in western agriculture that cowpeas and red clover fill in the eastern sections of the country whenever it can be successfully produced. Pound for pound alfalfa hay is a much better feed than clover, and three to five good hay crops may usually be procured each season, depending upon the latitude. Good cowpea hay is almost equal in feeding value to alfalfa path the number of crops of alfalfa produced in one season makes the total yield per acre two or three times that of cowpeas, besides being more easily cured. Alfalfa will or soiling purposes, as it quickly recovers and resumes its growth after cutting. It is better adapted for this purpose than it is for pasture. Since it is perennial it will last a number of years unless crowded out by weeds or otherwise destroyed.

Trom weeds, is required. Alfalfa will not succeed on a poorly drained soil or now low in fertility or deficient in lime. With the possible exception of the limestone regions, all soils in the region specified may safely be considered to require liming for alfalfa. Even in the limestone regions liming is often necessary. Usually a ton of lime per acre is required, and more than this is often necessary on the heavier soils. Well-rotted barnyard manner is the most satisfactory ferfulizer. If this is not available, a liberal application of commercial fertilizer rich in potash and phosphoric acid should be made. The percentage of nitrogen may be low, but some nitrogen should be supplied for the young plants before they become inoculated and are able to secure their supply from the air. Agood combination of fertilizer is muriate of potash 75 pounds, acti rock 250 pounds, and nitrate of soid 30 pounds.

Preparation of the soil.—When once started under (avorable soil conditions, weeds will l

weeds and fungous diseases. Soil from the roots of sweet clover plants will also inoculate alfalfa.

Seeding.—The seed should be sown without a nurse crop at the rate of 20 to 30 pounds per acre. It may be drilled or sown broadcast and covered lightly with a smoothing harrow. A much more even stand can be secured by seeding one half of the seed north and south and the other half east and west. Spring seeding is sometimes successful, but the weeds of midsummer are very likely to destroy the stand. Much better results can usually be secured by seeding in late summer or early autumn as soon as the danger from weeds that season is past (August 15 in the latitude of Washington, D.C.). This gives plenty of time for the plants to make sufficient growth before cold weather to pass through the winter safely.

winter safely.

winter safely. Treatment of the stand.—In the Southern States, if sown in the late summer or early autumn, one light clipping may be made if the growth is as much as 12 or 15 inches high. The plants should have from 6 to 10 inches of growth when they go into the winter. If the alfalfa goes through the winter successfully, the first cutting of hay may usually be secured in May, or earlier in the South. The hay should be cut when the plants are just coming into blossom unless the weeds threaten to choke them out before this stage is reached. The early cuttings should not be mowed low, as the alfalfa plants will not start so quickly and are more likely to be choked out by the weeds. If the first cutting should be light, as usually is the case if the seed is sown in the spring, it may be left on the land as a mulch. If heavy enough to smother the alfalfa plants, it should be removed. Under no circumstances should the field be pastured during the first two years, and even an old field should be pastured sparingly. If green feed is desired,

Under no circumstances should the field be pastured during the first two years, and even an old field should be pastured sparingly. If green feed is desired, soiling is the best practice.

Need of experimenting.—In most parts of the section specified alfalfa growing is still in the experimental stage. The data at hand indicate that there is, perhaps, no other crop so rigid in its requirements as to soil and treatment. Failure to provide any one of the indicated requirements usually means a failure. For this reason one's first attempts should be limited to a comparatively small area until he is thoroughly familiar with the requirements of this crop.